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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/807,511	03/24/2004	Thomas William McCracken	McCrack 347-50B	3390
7	7590 02/27/2006		EXAMINER	
Alexander D Raring			MCGRAW, TREVOR EDWIN	
PO Box 2266 Eads Station Arlington, VA 22202			ART UNIT	PAPER NUMBER
			3752	

DATE MAILED: 02/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		Application No.				
		10/807,511	MCCRACKEN ET AL.			
		Examiner	Art Unit			
		Trevor McGraw	3752			
Period fo	The MAILING DATE of this communication app or Reply	lears on the cover sheet with the C	correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir vill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 24 March 2004.					
,—	,					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-19</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) <u>1-19</u> is/are rejected. Claim(s) <u>1,13 and 15</u> is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.				
Applicat	ion Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority	under 35 U.S.C. § 119					
12) <u>□</u> a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
2) Noti	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	·				
	er No(s)/Mail Date <u>09/07/2004</u> .	6) 🔲 Other:				

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DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because in line 9 the word "downstream" is not in relation to the drawings of the invention. In figures 2 and 3, assuming the flow is coming from the right in figure 2 and from the left in figure 3, the second conduit (44) is upstream of the first conduit (42). Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

- 2. Claims 1, 13 and 15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. In regard to claim 1, in line 13, it appears to the Examiner that the word "second" should be substituted for the word "first" to keep in accordance with the applicant's drawings. Also in line 16 of claim 1, it appears to the Examiner that the word "upstream" should be substituted for the word "downstream" to keep in accordance with the applicant's drawings. Appropriate correction is required for clarity of first and second conduit orientation.
- 4. In regard to claim 13 in line 15, it appears to the Examiner that the word "upstream" should be substituted for the word "downstream" to keep in accordance with the applicant's drawings. Appropriate correction is required for clarity of first and second conduit orientation.

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5. In regard to claim 15 in line 5, it appears to the Examiner that the word "upstream" should be substituted for the word "downstream" to keep in accordance with the applicant's drawings. Appropriate correction is required for clarity of first and second conduit orientation.

Claim Objections

- 6. Claim 4 is objected to because of the following informalities: In line 2 of claim 4, the word "to" should be inserted after the word "adjacent" so as to read "adjacent to the" in lieu of "adjacent the". Appropriate correction is required.
- 7. Claims 2-12, 14 and 16-19 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Base et al. (6,003,789), Mathias et al. (5,565,241), Holmes (5,484,107), Dobbeling et al. (6,045,058), Dou et al. (5,289,976), Kukesh (5,678,764).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trevor McGraw whose telephone number is (571) 272-7375. The examiner can normally be reached on Monday-Friday (2nd & 4th Friday Off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Scherbel can be reached on (571) 272-4919. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Trevor McGraw Art Unit 3752

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TEM

David A. Scherbel
Supervisory Patent Examiner
Group 3700